

## INDEX TO VOLUME 60, 1996

## AUTHOR INDEX

- Afifi, N. A. 13  
 Alvarez, L. I. 152  
 Arruebo, M. P. 55  
 Austin, A. R. 247  
 Ayling, R. D. 168  
 Azuolas, J. 173
- Bains, R. K. 122  
 Bairden, K. 138  
 Baker, J. R. 157  
 Baldwin, C. J. 205  
 Batt, R. M. 280  
 Bedford, P. G. C. 17  
 Behnke, J. M. 7  
 Bellanato, J. 238  
 Bernadina, W. E. 107  
 Bernard, R. 37  
 Binns, M. 24  
 Blackmore, D. K. 255  
 Blamire, I. W. H. 247  
 Blewett, D. A. 61  
 Bøgh, H. O. 64  
 Bonafonte, J. I. 55  
 Bosu, W. T. K. 205  
 Boulton, M. E. 17  
 Brown, C. C. 182  
 Bryant, C. E. 267  
 Buchan, W. 92
- Cabral, L. 17  
 Capparelli, R. 179  
 Castano, M. 82  
 Ceppa, L. 33  
 Clarke, K. W. 267  
 Coles, G. C. 7  
 Collins, M. T. 190  
 Cook, C. J. 255  
 Coop, R. L. 276  
 Corcoran, B. M. 69  
 Correia, D. 213  
 Corrier, D. E. 222  
 Cripps, P. J. 243  
 Czaprynski, C. J. 190
- Dacasto, M. 33  
 D'Apice, L. 179  
 Deal, C. 144  
 Delatour, P. 144  
 Deloach, J. R. 222  
 Devine, C. E. 255  
 Devleeschouwer, P. 251  
 Dhaliwal, G. S. 157, 163  
 Di Bella, G. 272  
 Díaz-Espíñera, M. 238  
 Dick, L. 37  
 Dobson, H. 157, 163  
 Donnay, I. 251  
 Dréau, D. 111  
 Dumenigo, B. E. 278  
 Duncan, J. L. 138
- el-Brawy, A. M. A. 13  
 Ellis, W. A. 157, 163  
 el-Sanousi, A. A. 13  
 Elzer, P. H. 48  
 Enright, F. M. 48  
 Escalar, E. 238  
 Espino, A. M. 278  
 Evans, S. 168
- Fatemi, M. B. 48  
 Fenizia, D. 179  
 Finch, J. M. 97  
 Finlay, C. M. 278  
 Fishwick, G. 138  
 Flaherty, D. 262  
 Foot, R. 144
- Galina, C. S. 51  
 Geerts, S. 64  
 Gilbert, K. V. 255  
 Gill, M. 138  
 Gillespie, R. R. 228  
 Ginel, P. J. 107  
 Gleadhill, A. 117  
 Goldspink, G. 193  
 Gooch, L. 17  
 Grønvold, J. 64  
 Gruffydd-Jones, T. J. 243  
 Guan, M. 76
- Hagius, S. D. 48  
 Hall, E. J. 280  
 Hargis, B. M. 222  
 Harlizius, B. 218  
 Henriksen, S. A. 64  
 Hernandez, O. 51  
 Hikasa, Y. 134  
 Hill, M. A. 228  
 Hirvonen, J. 88  
 Hocking, P. M. 37  
 Holmes, P. H. 138  
 Howard, C. V. 122  
 Huang, Y. F. 209
- Ianelli, D. 179  
 Ilsøe, B. 64  
 Israf, D. A. 276  
 Ito, T. 94
- Jackson, E. 276  
 Jackson, F. 276  
 Janus, K. 234  
 Johnson, M. J. 7
- Kanitz, C. L. 228  
 Karsai, F. 44  
 Katunguka-Rwakishaya, E. 29  
 Kilpatrick, D. J. 185  
 Klippert, H. 218  
 Kodama, M. 94  
 Kogut, M. H. 222
- Kuczca, A. 218  
 Kyle, D. 92
- Lallès, J. P. 111  
 Lamothe, C. 51  
 Landoni, F. M. 144  
 Lanusse, C. E. 152  
 Leclercq, G. 251  
 Lees, P. 144  
 Licence, S. T. 24  
 Lightfoot, R. M. 17  
 Lind, P. 64  
 López, R. 107
- Maasland, S. A. 255  
 McCormack, R. 262  
 McCoy, M. A. 185  
 McGruder, E. D. 222  
 McKellar, Q. A. 138  
 Maeda, G. E. 64  
 Mahalingham, S. 187  
 Margarito, J. M. 107  
 Mariner, J. C. 182  
 Medrano, E. A. 51  
 Michell, A. R. 117  
 Molleda, J. M. 107  
 Monteiro, A. M. 262  
 Montgomery, J. 157, 163  
 Mtambo, M. M. A. 61  
 Murillo, M. D. 55  
 Murray, M. 138  
 Murray, R. D. 122, 163
- Nansen, P. 64  
 Nash, A. S. 61  
 Nebbia, C. 33  
 Newell, D. G. 168  
 Nieto, A. 82  
 Nolan, A. M. 213, 262  
 Novales, M. 107
- Ogasawara, S. 134  
 Ojok, L. 182  
 Okabe, C. 134
- Papasouliotis, K. 243  
 Parkins, J. J. 138  
 Parkinson, G. 173  
 Peter, A. T. 205  
 Phillips, R. W. 48  
 Pickett, C. 144  
 Plaza, M. A. 55  
 Pohlentz, J. 218  
 Pyörälä, S. 88
- Rajaratne, A. A. J. 92  
 Reid, J. 213, 262  
 Reilly, G. A. C. 185  
 Rizzo, A. 272  
 Robertson, G. T. 48  
 Rodríguez, A. 82

Rodríguez, M. 82, 238  
Roncada, P. 33  
Rutten, A. J. 209

Salmon, H. 111  
Salonen, M. 88  
Samuell, C. A. 152  
Sanchez, M. A. 82  
Sanchez, S. F. 152  
Sandholm, M. 88  
Sankari, S. 88  
Scala, F. 179  
Scandariato, G. 272  
Scott, D. 92  
Shojaee Aliabadi, F. 144  
Sibbons, P. D. 122  
Simmons, M. M. 247  
Simon, D. 218  
Smith, S. K. 1  
Smith, W. D. 1

Sopena, J. 55  
Sparkes, A. H. 243  
Stear, M. 138  
Sterczar, A. 44  
Stöber, M. 218  
Sunil-Chandra, N. P. 187  
Suriano, O. 272  
Suzycka, J. 234

Takase, K. 134  
Tammen, I. 218  
Taylor, P. M. 144  
Thompson, J. 267  
Thorp, B. H. 37, 173  
Timoney, J. F. 76  
Toullec, R. 111  
Treviranus, A. 218  
Turner, R. J. 97  
Upton, R. N. 209

Vaiano, S. 173  
Van Velzen, D. 122  
Verstegen, J. 251  
Viner, J. 243  
Vörös, K. 44

Walker, J. V. 48  
Wallace, D. S. 138  
Welsh, E. 262  
Whittington, R. J. 126  
Whyte, A. 24  
Woodward, M. J. 168  
Wouters-Ballman, P. 251  
Wright, S. E. 61

Youssef, S. A. H. 13  
Zhao, B. Y. 190

## SUBJECT INDEX

- 1,25-dihydroxycholecalciferol in broiler chickens between one and 21 days of age, Sequential studies of endochondral ossification and serum, 173
- 2,3-diphosphoglycerate in equine and human blood, Oxygen affinity and Bohr effect responses to, 272
- Adrenaline during sevoflurane, isoflurane and halothane anaesthesia either with or without ketamine or thiopentone in cats, Ventricular arrhythmic dose of, 134
- Adrenocortical function during treatment with levonorgestrel in the domestic cat, 205
- Adverse haemodynamic effects of the rapid intravenous injection of hypotonic solutions in sheep, 209
- Albendazole metabolites in pigs fed different diets, Plasma disposition kinetics of, 152
- Anaesthesia either with or without ketamine or thiopentone in cats, Ventricular arrhythmogenic dose of adrenaline during sevoflurane, isoflurane and halothane, 134
- Antipyrine in calves, Effect of age on the pharmacokinetics of, 234
- Antitrochanter in three strains of domestic fowl, Comparative development of the, 37
- Assessment of oro-caecal transit times in cats by the breath hydrogen method: the effects of sedation and a comparison of definitions, 243
- Aujeszky's disease virus and their shedding of the virus, Infection of pigs by aerosols of, 228
- Behaviour of a high-temperature-requirement A (HtrA) deletion mutant of *Brucella abortus* in goats, 48
- Biotin-avidin amplified enzyme-linked immunosorbent assay (ELISA) for the measurement of canine serum IgA, IgG, and IgM, 107
- Bohr effect responses to 2,3-diphosphoglycerate in equine and human blood, Oxygen affinity and, 272
- Bones of mortalities among caged layers, density and breaking strength of, 185
- Brain, Simple method for the perfusion-fixation of adult bovine, 247
- Breath hydrogen method: the effects of sedation and a comparison of definitions, Assessment of oro-caecal transit times in cats by the, 243
- Brucella abortus* in goats, Behaviour of a high-temperature-requirement A (HtrA) deletion mutant of, 48
- Calcitonin gene-related peptide, vasoactive intestinal polypeptide, neuropeptide Y, substance P and dopamine  $\beta$ -hydroxylase immunoreactive nerve fibres in the trachea of sheep, Distribution of, 69
- Campylobacters for epidemiological investigations, Restriction fragment length polymorphism of polymerase chain reaction products applied to the differentiation of poultry, 168
- Cardiopulmonary effects of medetomidine in sheep and in ponies, 267
- Carprofen in the cat, Pharmacodynamics and enantioselective pharmacokinetics of, 144
- Changes in the activities of hepatic xenobiotic metabolising enzymes after the administration of clenbuterol to female broilers, 33
- Changes in the release of amino acid neurotransmitters in the brains of calves and sheep after head-only electrical stunning and throat cutting, 255
- Characterisation of colony-stimulating activity in the avian T-cell derived factor, *Salmonella enteritidis*-immune lymphokine, 222
- Characterisation of murine monoclonal antibodies recognising opsonic, mouse-protective, chaining and mucosally relevant epitopes on the M protein of *Streptococcus equi* subspecies *equi*, 76
- Cholagogues on the volume of the gallbladder of dogs, Effect of, 44
- Clenbuterol to female broilers, Changes in the activities of hepatic xenobiotic metabolising enzymes after the administration of, 33
- Comparative development of the antitrochanter in three strains of domestic fowl, 37
- Coproantigen capture ELISA, Detection of gastrointestinal nematodes by a, 7
- Cryptosporidium* species isolated from a domestic cat (*Felis domestica*) in lambs and mice, Infectivity of a, 61
- Cytokine mRNA expression in bovine alveolar macrophages and peripheral blood mononuclear cells, Demonstration by reverse transcription-polymerase chain reaction of multiple, 94
- Delayed type hypersensitivity reactions to naive recipient inbred pigs, Transfer of T-cell-mediated, antigen-specific, 24
- Demonstration by reverse transcription-polymerase chain reaction of multiple cytokine mRNA expression in bovine alveolar macrophages and peripheral blood mononuclear cells, 94
- Density and breaking strength of bones of mortalities among caged layers, 185
- Detection of antibodies to *Staphylococcus aureus* in water buffalo milk by flow cytometry, 179
- Detection of *Fasciola hepatica* antigen in cattle faeces by a monoclonal antibody-based sandwich immunossay, 278
- Detection of gastrointestinal nematodes by a coproantigen capture ELISA, 7
- Detomidine: a pharmacokinetic study, Simultaneous infusions of propofol and ketamine in ponies premedicated with, 262
- Dichelobacter nodosus* in sheep in relation to the diagnosis of footrot, Further observations on the primary and anamnestic humoral responses to, 126
- Distribution of calcitonin gene-related peptide, vasoactive intestinal polypeptide, neuropeptide Y, substance P and dopamine  $\beta$ -hydroxylase immunoreactive nerve fibres in the trachea of sheep, 69
- Dopamine  $\beta$ -hydroxylase immunoreactive nerve fibres in the trachea of sheep, Distribution of calcitonin gene-related peptide, vasoactive intestinal polypeptide, neuropeptide Y, substance P, and, 69
- Effect of age on the pharmacokinetics of antipyrine in calves, 234
- Effect of cholagogues on the volume of the gallbladder of dogs, 44
- Effect of dietary protein on the regulation of populations of *Nematodirus battus* by lambs, 276
- Effect of nutritional level on bodyweight, degree of anaemia and carcass composition of sheep infected with *Trypanosoma congolense*, 29
- Effect of subclinical lead toxicity on the immune response of chickens to Newcastle disease virus vaccine, 13
- Effects of selenium and vitamin E on the immune responses of domestic animals, 97
- Endochondral ossification and serum 1,25-dihydroxycholecalciferol in broiler chickens between one and 21 days of age, Sequential studies of, 173
- Epithelial dystrophy in Briard dogs, Renal pigment, 17
- Escherichia coli* mastitis, Quantitative determination of bovine serum haptoglobin in experimentally induced, 88
- Evaluation of iohexol as a marker for the clinical measurement of glomerular filtration rate in dogs, 117
- Evidence of asynchrony in the onset of signs of oestrus in zebu cattle treated with a progestogen ear implant, 51
- Experimental single and trickle infections of cattle with *Taenia saginata*: studies of immunodiagnosis, 64
- Fasciola hepatica* antigen in cattle faeces by a monoclonal antibody-based sandwich immunossay, Detection of, 278

- Further observations on the primary and anamnestic humoral responses to *Dichelobacter nodosus* in sheep in relation to the diagnosis of footrot, 126
- Gallbladder of dogs, Effect of cholagogues on the volume of the, 44
- Glomerular filtration rate in dogs, Evaluation of iothelox as a marker for the clinical measurement of, 117
- Glomeruli in the kidneys of lambs, Stereological estimation of the absolute number of, 122
- Growth factors (PDGF and TGF  $\beta$ ) in equine chronic pneumonia, Immunocytochemical detection of, 82
- Haemonchosis, Influence of soyabean meal supplementation on the resistance of Scottish blackface lambs to, 138
- Haemonchus contortus* and with its major polypeptide components, Immunisation of sheep with an integral membrane complex of, 1
- Hypotonic solutions in sheep, Adverse haemodynamic effects of the intravenous injection of, 209
- Identification of soyabean allergens and immune mechanisms of dietary sensitivities in preruminant calves, 111
- Immunisation of sheep with an integral membrane glycoprotein complex of *Haemonchus contortus* and with its major polypeptide components, 1
- Immunocytochemical detection of growth factors (PDGF and TGF  $\beta$ ) in equine chronic pneumonia, 82
- Immunohistochemical detection of rinderpest virus: effects of autolysis and period of fixation, 182
- Improved DNA test for bovine leucocyte adhesion deficiency, An, 218
- Induction of L-arginine-dependent production of nitric oxide in bovine monocytes by interferon-gamma and lipopolysaccharide, 190
- Infection of pigs by aerosols of Aujeszky's disease virus and their shedding of the virus, 228
- Infectivity of a *Cryptosporidium* species isolated from a domestic cat (*Felis domestica*) in lambs and mice, 61
- Influence of soyabean meal supplementation on the resistance of Scottish blackface lambs to haemonchosis, 138
- Interferon-gamma and lipopolysaccharide, Induction of L-arginine-dependent production of nitric oxide in bovine monocytes by, 190
- Iothelox as a marker for the clinical measurement of glomerular filtration rate in dogs, Evaluation of, 117
- Isolation and subgrouping of rotaviruses from buffalo calves in Sri Lanka, 187
- Ketamine in ponies premedicated with detomidine: a pharmacokinetic study, Simultaneous infusions of propofol and, 262
- L-arginine-dependent production of nitric oxide in bovine monocytes by interferon-gamma and lipopolysaccharide, Induction of, 190
- Lead toxicity on the immune response of chickens to Newcastle disease virus vaccine, Effect of subclinical, 13
- Leptospira interrogans* serovar *hardjo*, Presence of antigen and antibodies in serum and genital discharges of heifers after experimental intrauterine inoculation with, 157
- Leptospira interrogans* serovar *hardjo*, Presence of antigen and antibody responses in genital discharges of cows from dairy herds naturally infected with, 163
- Levonorgestrel in the domestic cat, Adrenocortical function during treatment with, 205
- Lipopolysaccharide, Induction of L-arginine-dependent production of nitric oxide in bovine monocytes by interferon-gamma and, 190
- Medetomidine in sheep and in ponies, The cardiopulmonary effects of, 267
- Minor constituents of sabulous material in equine urine, 238
- Muscle growth and muscle function: a molecular biological perspective, 193
- Myoelectrical activity of the gastrointestinal tract of sheep analysed by computer, 55
- Nematodes by a coproantigen capture ELISA, Detection of gastrointestinal, 7
- Nematodirus battus* by lambs, The effect of dietary protein on the regulation of populations of, 276
- Newcastle disease virus vaccine, Effect of subclinical lead toxicity on the immune response of chickens to, 13
- Oxygen affinity and Bohr effect responses to 2,3-diphosphoglycerate in equine and human blood, 272
- Peptide, vasoactive intestinal polypeptide, neuropeptide Y, substance P and dopamine  $\beta$ -hydroxylase immunoreactive nerve fibres in the trachea of sheep, Distribution of calcitonin gene-related, 69
- Perfusion-fixation of adult bovine brain, Simple method of, 247
- Pharmacodynamics and enantioselective pharmacokinetics of carprofen in the cat, 144
- Pharmacokinetics of propofol infusions, either alone or with ketamine, in sheep premedicated with acepromazine and papaveretum, 213
- Phosphorus in ruminants, Use of sheep maintained by intragastric infusion as a model for studying the endogenous loss of, 92
- Plasma disposition kinetics of albendazole metabolites in pigs fed different diets, 152
- Pneumonia, Immunocytochemical detection of growth factors (PDGF and TGF  $\beta$ ) in equine chronic, 82
- Presence of antigen and antibodies in serum and genital discharges of heifers after experimental intrauterine inoculation with *Leptospira interrogans* serovar *hardjo*, 157
- Presence of antigen and antibody responses in genital discharges of cows from dairy herds naturally infected with *Leptospira interrogans* serovar *hardjo*, 163
- Propofol and ketamine in ponies premedicated with detomidine: a pharmacokinetic study, Simultaneous infusions of, 262
- Progestogen ear implant, Evidence of asynchrony in the onset of signs of oestrus in zebu cattle treated with a, 51
- Propofol infusions, either alone or with ketamine, in sheep premedicated with acepromazine and papaveretum, Pharmacokinetics of, 213
- Quantitative determination of bovine serum haptoglobin in experimentally induced *Escherichia coli* mastitis, 88
- Relationships between receptors for epidermal growth factor and steroid hormones in normal, dysplastic canine mammary tissues, 251
- Renal pigment epithelial dystrophy in Briard dogs, 17
- Restriction fragment length polymorphism of polymerase chain reaction products applied to the differentiation of poultry campylobacters for epidemiological investigations, 168
- Rinderpest virus: effects of autolysis and period of fixation, Immunohistochemical detection of, 182
- Rotaviruses from buffalo calves in Sri Lanka, Isolation and subgrouping of, 187
- Sabulous material in equine urine, Minor constituents of, 238
- Salmonella enteritidis*-immune lymphokine, Characterisation of colony-stimulating activity of the avian T-cell-derived factor, 222
- Selenium and vitamin E on the immune responses of domestic animals, Effects of, 97
- Sequential studies of endochondral ossification and serum 1,25-dihydroxycholecalciferol in broiler chickens between one and 21 days of age, 173
- Simple method for the perfusion-fixation of adult bovine brain, 247
- Simultaneous infusions of propofol and ketamine in ponies premedicated with detomidine: a pharmacokinetic study, 262
- Soyabean meal supplementation on the resistance of Scottish blackface lambs to haemonchosis, Influence of, 138
- Staphylococcus aureus* in water buffalo milk by flow cytometry, Detection of antibodies to, 179
- Stereological estimation of the absolute number of glomeruli in the kidneys of lambs, 122
- Steroid hormones in normal, dysplastic canine mammary tissues, Relationships between receptors for epidermal growth factor and, 251
- Streptococcus equi* subspecies *equi*, Characterisation of murine monoclonal antibodies recognising opsonic, mouse-protective, chaining and mucosally relevant epitopes on the M protein of, 76
- Stunning and throat cutting, Changes in the release of amino acid neurotransmitters in the brains of calves and sheep after head-only electrical, 255
- Sugars, Urinary excretion by dogs of intravenously administered simple, 280
- Taenia saginata*: studies of immunodiagnosis, Experimental single and trickle infections of cattle with, 64
- Throat cutting, Changes in the release of amino acid neurotransmitters in the brains of calves and sheep after head-only electrical stunning and, 255
- Transfer of T-cell mediated, antigen-specific delayed type hypersensitivity reactions to naive recipient inbred pigs, 24
- Trypanosoma congolense*, Effect of nutritional level on bodyweight, degree of anaemia and carcass composition of sheep infected with, 29

- Urinary excretion by dogs of intravenously administered simple sugars, 280
- Urine, Minor constituents of sabulous material in equine, 238
- Use of sheep maintained by intragastric infusion as a model for studying the endogenous loss of phosphorus in ruminants, 92
- Ventricular arrhythmogenic dose of adrenaline during sevoflurane, isoflurane and halothane anaesthesia either with or without ketamine or thiopentone in cats, 134
- Vitamin E on the immune responses of domestic animals, Effects of selenium and, 97